

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
16 January 2003 (16.01.2003)

PCT

(10) International Publication Number
WO 03/004057 A1(51) International Patent Classification⁷: **A61K 45/00**,
38/00, 39/395, 48/00, G01N 33/50, A61P 37/00(74) Agents: **KANG, Yoon et al.**; Smart & Biggar, Suite 1500,
438 University Avenue, P.O. Box 111, Toronto, Ontario
M5G 2K8 (CA).

(21) International Application Number: PCT/CA02/01012

(22) International Filing Date: 3 July 2002 (03.07.2002)

(25) Filing Language: English

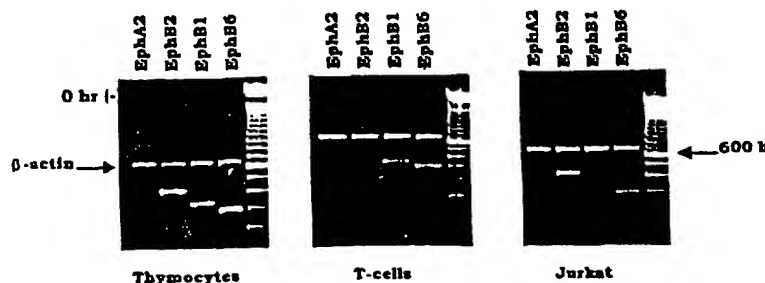
(26) Publication Language: English

(30) Priority Data:
60/302,385 3 July 2001 (03.07.2001) US(71) Applicant (for all designated States except US): **THE
HOSPITAL FOR SICK CHILDREN [CA/CA]**; 555
University Avenue, Toronto, Ontario M5G 1X8 (CA).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ROIFMAN, Chaim**,
M. [CA/CA]; 33 Christine Crescent, North York, Ontario
M2R 1A4 (CA). **FREYWALD, Andrew [CA/CA]**; 725
New Westminster Drive, Unit 54, Thornhill, Ontario
L4J 7Y9 (CA). **SHARFE, Nigel [NZ/CA]**; 388 College
Street, Floor 2, Toronto, Ontario M5T 1S7 (CA). **GRUN-
BERGER, Thomas [CA/CA]**; 63 Robingrove Road,
Toronto, Ontario M2R 3A1 (CA). **GRUNEBBAUM, Eyal**
[IL/IL]; 50 Dov Hoz Street, P.O. Box 9, 44100 Kfar-Saba
(IL).(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG,
SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
VN, YU, ZA, ZM, ZW.(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SI, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK,
TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).**Published:**

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.(54) Title: **EPHRIN AND EPH RECEPTOR MEDIATED IMMUNE MODULATION**(57) Abstract: Methods and com-
positions for immune modulation
are described. The methods involve
modulating an ephrin or Eph receptor
which consequently modulates an
immune response, in particular a T
cell response, modulates immune
adhesion cell, modulates chemotaxis
and/or migration or modulates
apoptosis. The method is useful
in treating a variety of conditions
including autoimmune disease,

allergy, graft versus host disease, transplant rejection and cancer.

WO 03/004057 A1